UTILITY Attorney Docket No. 211909US2 CIP						
PATENT APPLICATION	First Inventor or Application Identifier Atsumi YA					
TRANSMITTAL (Only for new nonprovisional applications under 37 CFR-1.53(b))	THE PARTITION OF MANUFACTURING OF CONDUCTOR DEVICE			/ICE		
	Assignee Name: Mitsubishi Denki Kabushiki Kaisha					
U.	Assignee Address: 2-3, Marunouchi 2-chome, Chiyoda-ku, TOKYO 100-8310 JAPAN					
<u> </u>						
APPLICATION ELEMEN See MPEP chapter 600 concerning utility patent in	ADDRESS TO:	Assistant Commissioner f Box Patent Application Washington, DC 20231	for Patents 4.96			
Fee Transmittal Form (e.g. PTO/SE GSubmit an original and a duplicate for fee p	3/17) processing)		MPANYING APPLICATION			
2. ■ Specification Tota	Sheets 57	8. 🔳 Applicat	nent Papers (cover sheet & ion Data Sheet. See 37 CF	R 1.76		
3. ■ Formal Drawing(s) Tota	Sheets 45		R. §3.73(b) Statement re is an assignee) Translation Document (if ap	Power of Attorney		
— (35 U.S.C. 113)		11 Informa	tion Disclosure ent (IDS)/PTO-1449	Copies of IDS Citations (2)		
4. ■ Oath or Declaration Total	al Pages 3	12. □ Prelimir	ary Amendment			
a. □ Newly executed (original or co	• • •	<u> </u>	dvance Serial No. Postcard			
 b. ☐ Copy from a prior application (in for continuation / divisional w/ box i. ☐ DELETION OF INVENTO 	(17 completed)		d Copy of Priority Document priority is claimed)			
Signed statement attached del the prior application, see 37 C.	eting inventor(s) named in F.R. §1.63(d)(2) and	15. □ Applica See 37 C	nt claims small entity status FR 1.27			
5. CD-ROM or CD-R in duplicate, large Program (Appendix) Nucleotide and/or Amino Acid Sequ	e table or Computer	16. I Other:	Request for Priority			
Nucleotide and/or Amino Acid Seques (if applicable, all necessary)	uence Submission		Statement of Relevancy			
a. Computer Readable Form (CR	RF)					
b. Specification or Sequence Listing o	on:					
i. □ CD-ROM or CD-R (2 cop	ies); or					
ii. 🗆 Paper						
c. Statements verifying identity of	f above copies					
If a CONTINUING APPLICATION, checonomic Continuation Divisional Prior application information: Examination: Examination CONTINUATION OR DIVISIONAL APPS only: The considered a part of the accompanying continuation owner a portion has been inadvertently omitted from the continuation of the accompanying continuation owner approximation of the accompanying continuation of the accompanying continua	Continuation er: Not Assigned e entire disclosure of the prediction and in divisional application and in the prediction and in the p	in-part (CIP) ior application, from w	of prior application no.: Group Art Unit: 1	1765 plied under Box 4b, is <u>can only</u> be relied upon		
18. Amend the specification by inserting be	fore the first line the se	entence:				
■ This application is a □ Continuation □ Division ■ Continuation-in-part (CIP) of application Serial No. 09/668,382 Filed on September 25, 2000,						
□ Which was published in English						
□ Which was not published in English						
☐ This application claims priority of provis	sional application Seria	ıl No.	Filed			
19. CORRESPONDENCE ADDRESS						
22850 (703) 413-3000						
FACSIMILE: (703) 413-2220						
Name: Gregory J. Maier			Registration No.: 25,599			

	Name:	Gregory J. Maier	Registration	n No.:	25,599
5	Signature:	Surely Sachon		Date:	7-27-01
	Name:	Surinder Sachar	Registration	n No.:	34,423

Docket No.

211909US2 CIP

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

INVENTOR(S) Atsumi YAMAGUCHI et al.

SERIAL NO:

New Application

FILING DATE: Herewith

FOR:

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METHOD OF MANUFACTURING SEMICONDUCTOR DEVICE

FEE TRANSMITTAL

ASSISTANT COMMISSIONER FOR PATENTS WASHINGTON, D.C. 20231

FOR	NUMBER FILED	NUMBER EXTRA	RATE	CALCULATIONS
TOTAL CLAIMS	18 - 20 =	0	× \$18 =	\$0.00
INDEPENDENT CLAIMS	3 - 3 =	0	× \$80 =	\$0.00
□ MULTIPLE DEPENDENT CLAIMS (If applicable) + \$270 =			\$0.00	
□ LATE FILING OF DECLARATION + \$130 =			\$0.00	
BASIC FEE			\$710.00	
TOTAL OF ABOVE CALCULATIONS			\$710.00	
□ REDUCTION BY 50% FOR FILING BY SMALL ENTITY			\$0.00	
□ FILING IN NON-ENGLISH LANGUAGE		+ \$130 =	\$0.00	
■ RECORDATION OF ASSIGNMENT +		+ \$40 =	\$40.00	
			TOTAL	\$750.00

Please charge Deposit Account No. 15-0030 in the amount of

A duplicate copy of this sheet is enclosed.

A check in the amount of

\$750.00

to cover the filing fee is enclosed.

The Commissioner is hereby authorized to charge any additional fees which may be required for the papers being filed herewith and for which no check is enclosed herewith, or credit any overpayment to Deposit Account No. 15-0030. A duplicate copy of this sheet is enclosed.

Respectfully Submitted,

OBLON, SPIVAK, McCLELLAND,

MAIER & NEUSTADT, P.C.

7-27-01

Tel. (703) 413-3000 Fax. (703) 413-2220 (OSMMN 10/00)

Gregory J. Maier

Registration No.

25,599

Surinder Sachar

Registration No.

34,423

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF: Atsumi YAMAGUCHI et al.

GAU:

SERIAL NO: New Application

EXAMINER:

FILED:

Herewith

FOR:

METHOD OF MANUFACTURING SEMICONDUCTOR DEVICE

REQUEST FOR PRIORITY

ASSISTANT COMMISSIONER FOR PATENTS WASHINGTON, D.C. 20231

SIR:

- Full benefit of the filing date of U.S. Application Serial Number 09/668,382, filed September 25, 2000, is claimed pursuant to the provisions of 35 U.S.C. §120.
- ☐ Full benefit of the filing date of U.S. Provisional Application Serial Number, filed, is claimed pursuant to the provisions of 35 U.S.C. §119(e).
- Applicants claim any right to priority from any earlier filed applications to which they may be entitled pursuant to the provisions of 35 U.S.C. §119, as noted below.

In the matter of the above-identified application for patent, notice is hereby given that the applicants claim as priority:

COUNTRY	APPLICATION NUMBER	MONTH/DAY/YEAR
JAPAN	P2000-110603	APRIL 12, 2000
JAPAN	P2001-051447	FEBRUARY 27, 2001
Certified copies of the co	orresponding Convention Application(s)	

- are submitted herewith
- will be submitted prior to payment of the Final Fee
- were filed in prior application Serial No. 09/668,382, filed September 25, 2000.
- were submitted to the International Bureau in PCT Application Number . Receipt of the certified copies by the International Bureau in a timely manner under PCT Rule 17.1(a) has been acknowledged as evidenced by the attached PCT/IB/304.
- (A) Application Serial No.(s) were filed in prior application Serial No. filed; and
 - (B) Application Serial No.(s)
 - are submitted herewith
 - will be submitted prior to payment of the Final Fee

Respectfully Submitted,

OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT, P.C.

Gregory J. Maier

Registration No. 25,599

Surinder Sachar

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211909US2 CIP

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

INVENTOR(S) Atsumi YAMAGUCHI et al.

SERIAL NO:

New Application

FILING DATE: Herewith

FOR:

METHOD OF MANUFACTURING SEMICONDUCTOR DEVICE

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Respectfully Submitted,

OBLON, SPIVAK, McCLELLAND,

MAIER & NEUSTADT, P.C.

Date:

7-27-01

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DOCKET NO.: 211909US2 CIP

page <u>1</u> of <u>1</u>

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF: Atsumi YAMAGUCHI, et al.

SERIAL NO.: New Application

FILED:

Herewith

FOR: METHOD OF MANUFACTURING SEMICONDUCTOR DEVICE

STATEMENT OF RELEVANCY

Reference AO (4-127518) on Form PTO-1449.

The following is English translation of an extract from the above-identified document relevant to the present application.

This invention relates to a semiconductor device manufacturing method having a step where an ion implantation is performed to a resist pattern and the size of the resist pattern is reduced according to the amount of ion implantation.

Reference AP (63-43319) on Form PTO-1449.

The following is English translation of an extract from the above-identified document relevant to the present application.

This invention relates to a pattern formation method with a process wherein ions of such as inert gas, carbon, silicon and metals are implanted into a resist pattern formed by a lithography process so that a carbon film with an excellent resistance against dry etching can be formed on the resist surface.

